53-1000035-07
March 12, 2008

Mid-Size Switch Power Supply

Replacement Procedure

Supporting Fabric OS v6.1.0

Supporting Brocade 5300, 4900, 7500 series, and 7600

BROCADE

53-1000035-07

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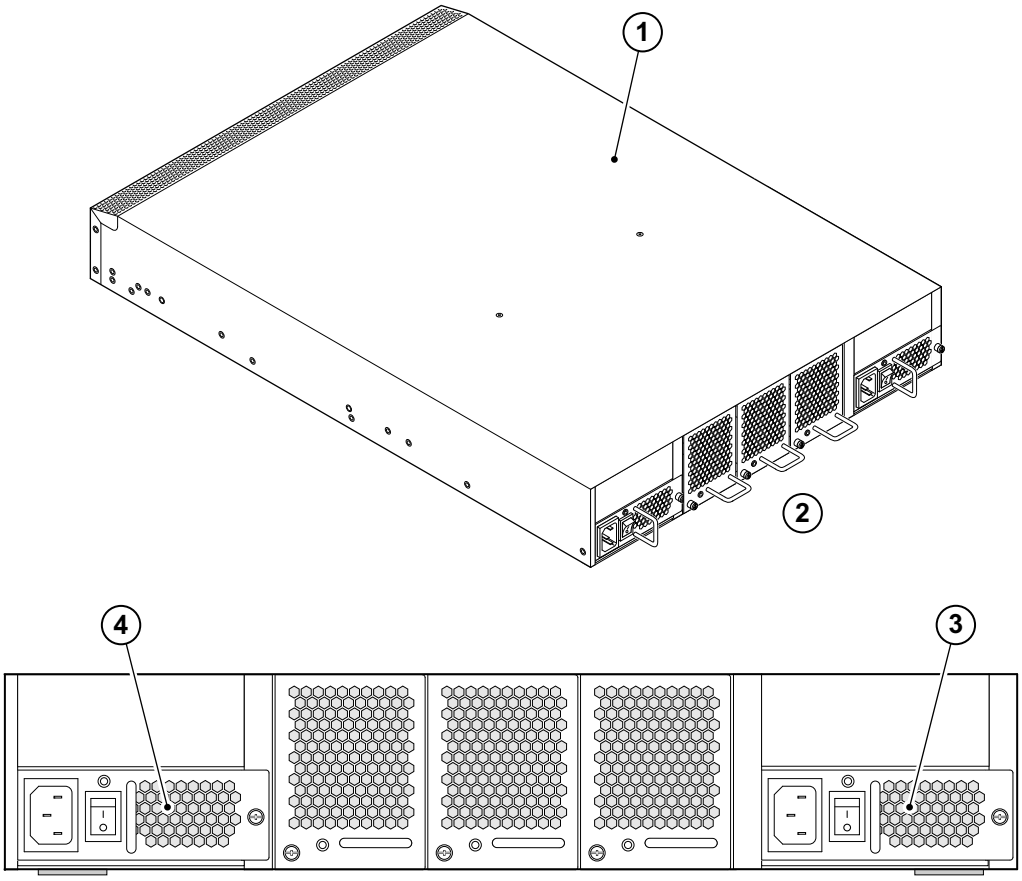
Document History

Title	Publication Number	Summary of Changes	Date
SilkWorm Mid Sized Power Supply Replacement Procedure	53-1000035-02	New document	December 2005
Mid Size Switch Power Supply Replacement Procedure	53-1000035-03	Re-branding	March 2007
Mid Size Switch Power Supply Replacement Procedure	53-1000035-04	Added 7600 FRU information.	June 2007
Mid Size Switch Power Supply Replacement Procedure	53-1000035-05	Corrected supported hardware statement on cover, corrected document History table part number, updated barcode.	June 2007
Mid Size Switch Power Supply Replacement Procedure	53-1000035-06	Rebranded to current standards and changed title and text of manual to include “7500 series.”	January 2008
Mid Size Switch Power Supply Replacement Procedure	*53-1000035-07*	Updated to include support for the Brocade 5300.	March 12, 2008

Power Supply Replacement

The Switch or SAN Router has two power supplies, as displayed in Figure 1. Fabric OS identifies the power supplies from right to left on the nonport side as Power supply 1 and Power supply 2. (The actual appearance of the Switch or SAN Router may differ from this illustration but the locations are correct.)

FIGURE 1 Power supplies on the nonport side



1	Switch or SAN Router	3	Power supply 1
2	Nonport side	4	Power supply 2

CAUTION

Disassembling any part of the power supply voids the part warranty and regulatory certifications. There are no user-serviceable parts inside the power supply. The cooling system relies on pressurized air, do not leave either of the power supply slots empty longer than two minutes when the Switch or SAN Router is operating. If a power supply fails, leave the power supply in the Switch or SAN Router until it can be replaced. Maintain both power supplies in operational condition to provide redundancy.

Table 1 on page 5 describes the power supply status LED colors, behaviors, and actions required, if any.

TABLE 1 Power supply status LED behavior, description, and required actions

LED Color	Description	Action Required
No light	Power supply is not receiving power, or is off.	Verify that the power supply is on and seated and the power cord is connected to a functioning power source.
Steady green	Power supply is operating normally.	No action is required.
Steady amber (for more than 5 seconds)	Power supply fault for one of the following reasons: • The power supply is switched off. • The power cable is disconnected. • The power supply has failed. NOTE: When the Switch or SAN Router is first powered on the power supply status LED will show amber until POST has completed.	Try one of the following: • Check the power cable connection. • Verify that the power supply is powered on. • Replace the power supply FRU.

Time Required

Replacing a power supply in the Switch or SAN Router should require less than two minutes to complete.

Items Required

The following items are required to replace a power supply:

- New power supply
- Phillips-head screwdriver #1

Replacing a Power Supply

Perform the following steps to replace a power supply unit in the Switch or SAN Router.

1. To leave the Switch or SAN Router in service while replacing a power supply, verify that the other power supply (the one not being replaced) has been powered on for at least four seconds and has a steady green LED.
2. Power off the power supply by pressing the AC power switch to the “0” symbol. See Figure 1 for the location of the AC power switch.
3. Unplug the power cord from the power supply that is being replaced.
4. Use a Phillips-head screwdriver to unscrew the captive screw on the power supply.
5. Remove the power supply from the chassis by pulling the handle on the power supply out, away from the chassis.
6. Install the new power supply in the chassis.

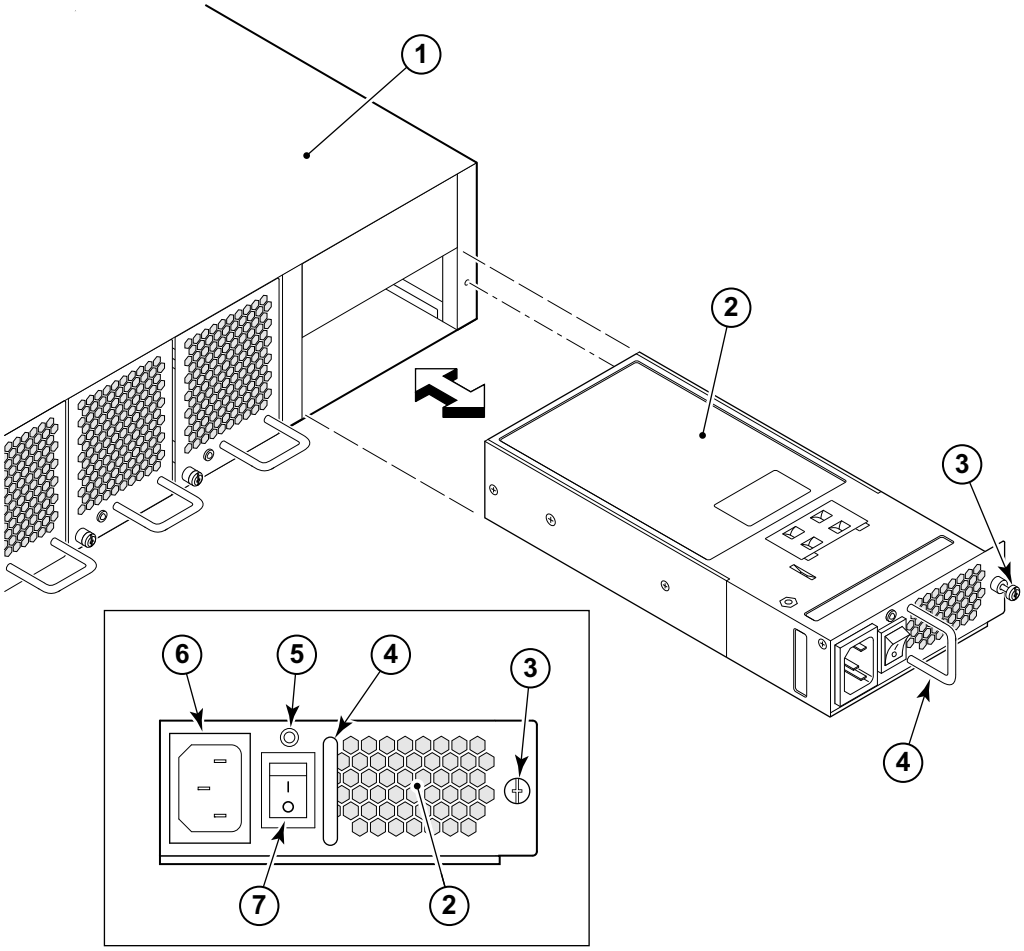
CAUTION

Do not force the installation. If the power supply does not slide in easily, ensure that the power supply is correctly oriented before continuing.

   a. Orient the power supply as shown in Figure 2, with the AC power switch on the left. (The actual appearance of the Switch or SAN Router may differ from this illustration but the locations are correct.)
   b. Gently push the power supply into the chassis until it is firmly seated.
   c. Secure the power supply to the chassis by screwing in the captive screw using the Phillips-head screwdriver.
7. Plug the power cord in to the power supply and power on the Switch or SAN Router by pressing the AC power switch to the “1” symbol.
8. Verify that the LED on the new power supply displays a steady green light while the Switch or SAN Router is operating (see Table 1 on page 5). If the LED is not a steady green, ensure that the power supply is securely installed and seated properly.

9. Optionally, if using the Command Line Interface (CLI), enter the **psShow** command at the command line prompt to display power supply status. Power supply status can also be viewed using the Web Tools application. See Figure 1 on page 4 for the location of Power supply 1 and Power supply 2.

FIGURE 2 Inserting the power supply



1	Switch or SAN Router	5	Status LED
2	Power supply	6	AC Power receptacle
3	Captive screw	7	AC power switch
4	Handle		